

**Notice of Allowability**

Application No.

09/776,678

Examiner

Julie-Huyen L. Ngo

Applicant(s)

HIRABAYASHI, YUKIYA

Art Unit

2871

NW

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/30/2003.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 3 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No. <u>5/7/01 &amp; 3/7/03</u> | 7 <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|  | 9 <input type="checkbox"/> Other  |

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election with traverse of Group I, claims 1-14, on October 30, 2003 is acknowledged. The traversal is found persuasive, therefore, the restriction is hereby withdrawn and all the claims are considered and treated as set forth below.

### ***Information Disclosure Statement***

The information disclosure statements filed on May 7, 2001 and March 7, 2003 have been considered.

### ***Priority***

Receipt is acknowledged of paper submitted under 35 U.S.C. 119(a)-(d), which paper has been placed of record in the file.

### ***Allowable Subject Matter***

Claims 1-18 are allowed.

### ***Reasons for Allowance***

Claims 1, 3 and 5 are allowed since there is no prior art that either teaches or suggests a device comprising an etching stop layer having resistance to etching of an oxide film formed on a surface of a short-circuit wiring provided between the short-circuit wiring and the base oxide film in a region wider than at least a hole.

Claim 15 is allowed since there is no prior art that either teaches or suggest a method of manufacturing a liquid crystal device comprising steps of forming an etching stop layer on the base oxide film, forming the short-circuit wiring on the base oxide film so that the short-circuit wiring crosses the etching stop layer; forming holes by etching in the insulating film above a formation region of the etching stop layer.

Claim 17 is allowed since there is no prior art that either teaches or suggest a method of manufacturing a liquid crystal device comprising steps of patterning a silicon film on the base oxide film to form the semiconductive active films and an etching stop layer; patterning the second interlayer insulating film to form holes in formation regions of the etching stop layer.

Claims 2, 4, 6-14, 16 and 18 are allowed since they depend on the allowed claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Yeo (US 6084648 A) discloses a process for fabricating the liquid crystal display with the gate line 12L is automatically separated from the shorting bar 18 because the

connection region has such a width to allow the anodic oxide layer 13 to be formed on the whole part thereof.

Kim et al. (US 6128051 A) disclose a method for manufacturing the active panel comprising steps of forming the shorting bar connector 167 formed of the same material, i.e. aluminum or aluminum alloy, that is used to form the gate line 113a and the gate pad 115a; forming a cutting hole 165 exposing the shorting bar connector 167 is formed as shown in FIG. 4e.

Lim (US 6005647A) discloses a TFT-LCD includes a plurality of odd lines 23 and even lines 24 alternately connected to a first shorting bar 20. Cutting regions 25 separate even lines 24 from first shorting bar 20. Even lines 24, however, are connected to a second shorting bar 21a.

#### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (703) 305-3508. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (703) 305-3492.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

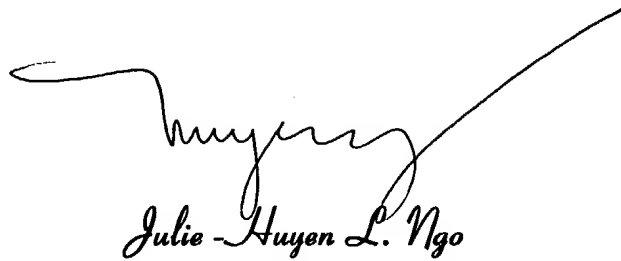
Application/Control Number: 09/776,678

Page 5

Art Unit: 2871

Any facsimile-transmitted correspondence to this application should be faxed to the centralized facsimile number (703) 872-9306.

January 9, 2004

A handwritten signature in black ink, appearing to read "Julie-Huyen L. Ngo", with a long, sweeping horizontal stroke extending to the right.

**Patent Examiner  
Art Unit 2871**